

APPENDIX E-3

MOBILE6.2 Input Parameter Summary

Table E-3-1: General Parameters and Options for Control Strategy Runs

Parameter	Assumptions Used
Output Pollutants	VOC, NOX
Analysis Day	Average Summer Weekday (June, July, August)
Traffic Data	
PENNDOT Roadway Management System (RMS) Source Data Year	2002 for year 2002 2005 for years 2008, 2009
HPMS VMT Adjustment Year	Same as above
PENNDOT Seasonal Factor Data	Same as above
PENNDOT Hourly Pattern Data	Same as above
PENNDOT RMS Truck Percentages Used for Vehicle Mixes	Same as above
Traffic Volume Forecasted Growth	Forecasted using PennDOT study growth factors; expanded 2005 volumes to 2008 and 2009; adjusted to DVRPC regional totals.
M6 Parameters	
Emissions Calendar Year	Varies by Analysis Year (2002, 2008, 2009)
Evaluation Month	7 (July)
Season	1 – Summer
CAAA Standards	Enabled
Tier2 Standards	Enabled (2002)
North-East NLEV	Included
California LEVII	Included (2008, 2009)
2007 HDDV Rule	Enabled
Refueling Emissions	Not Included
Registration Data	05 Local Data + National Truck Defaults
Diesel Sales Fractions	National Defaults
VMT by Hour	05 Local Data (varies by County, FC)
VMT by Facility	Each facility run as separate scenario
VMT by Speed	Calculated by PPSUITE
Min/Max Temps	70.2/ 87.5
Absolute Humidity	83.39
Inspection/Maintenance Program	See Table E-3-2 and E-3-3
Fuel Program	4 (using RFG assumptions)
RVP	6.8

Table E-3-2: Inspection/Maintenance Program Input Parameters

MOBILE6 I/M Test Types:	Philadelphia PA97 with ASM Program and Phase-In Cutpoints (2002)			Philadelphia Annual OBDII and PA97 w/ASM Program and w/Final Cutpoints (2004 and above)			
	Idle	ASM 5015 Phase-In	GC	OBD I/M	ASM 5015 Final	EVAP OBD&GC	GC
I/M Program							
Program Start Year	1984	1997	1997	2004	1997	2004	1997
I/M Stringency	20	20		20	20		
I/M Model Years							
<i>First Year</i>	1975	1981	1975	1996	1981	1996	1975
<i>Last Year</i>	1980	2050	2050	2050	1995	2050	1995
I/M Waiver Rates							
Pre-81 Model Years	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Post-81 Model Years	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
I/M Compliance	96.0%	96.0%	96.0%	96.0%	96.0%	96.0%	96.0%
Program Type: Test Only (T/O) Test & Repair computerized (TRC) Test & Repair Manual (TRM)	TRC	TRC	TRC	TRC	TRC	TRC	TRC
Inspection Frequency Annual Biennial	Annual	Annual	Annual	Annual	Annual	Annual	Annual
I/M Vehicles 1 = I/M Benefits not calculated 2 = I/M Benefits calculated							
LDGV	2	2	2	2	2	2	2
LDGT1	2	2	2	2	2	2	2
LDGT2	2	2	2	2	2	2	2
LDGT3	2	2	2	2	2	2	2
LDGT4	2	2	2	2	2	2	2
HDGV2B	1	1	1	1	1	1	1
HDGV3	1	1	1	1	1	1	1
HDGV4	1	1	1	1	1	1	1
HDGV5	1	1	1	1	1	1	1
HDGV6	1	1	1	1	1	1	1
HDGV7	1	1	1	1	1	1	1
HDGV8A	1	1	1	1	1	1	1
HDGV8B	1	1	1	1	1	1	1
GAS BUS	1	1	1	1	1	1	1
I/M Effectiveness I/M TTC Credits New Model Year Exemption I/M Exemptions (<5000 mi)	1.00 Included First Model Year <5000 mi			1.00 Included First Model Year Not Modeled			

* Bucks, Chester, Delaware, Montgomery, Philadelphia

Table E-3-3: Anti-Tampering Program Input Parameters

ATP Parameters	Philadelphia (2002 & above)
Program Start Year	97
I/M Model Years	
First Year	75
Last Year	50
I/M Vehicles 1 = I/M Benefits not calculated 2 = I/M Benefits calculated	
LDGV	2
LDGT1	2
LDGT2	2
LDGT3	2
LDGT4	2
HDGV2B	1
HDGV3	1
HDGV4	1
HDGV5	1
HDGV6	1
HDGV7	1
HDGV8A	1
HDGV8B	1
GAS BUS	1
Inspection Frequency: Annual Biennial	Annual
I/M Compliance	96.0%
Inspections Performed: 1 = Not Performed 2 = Performed	
Air Pump System	2
Catalyst Removal	2
Fuel Inlet Restrictor	2
Tailpipe Lead Deposit Test	1
EGR System	2
Evaporative Control System	2
PCV System	2
Gas Cap	2

Table E-3-4: Summary of Input Parameter Assumptions for RFP Analysis Runs

Parameters	2002 Actual Baseline	2002 Adjusted Baseline	2008 Adjusted Baseline	2008 Control Strategy
MOBILE Calendar Year	2002	2002	2008	2008
Traffic VMT Year	2002	2002	2002	2008
I/M	ASM (2002 Program)	1990 IM Program	1990 IM Program	OBD / PA97 ASM
CAAA	Included	Use M6 Keyword NO CLEAN AIR ACT	Use M6 Keyword NO CLEAN AIR ACT	Included
TIER 2	Included	Use M6 Keyword NO TIER2 (No NLEV/LEVII)	Use M6 Keyword NO TIER2 (No NLEV/LEVII)	Included with LEVII
HDDV Rule	Included (No Impact)	Use M6 Keyword NO 2007 HDDV RULE	Use M6 Keyword NO 2007 HDDV RULE	Included
RFG	Use M6 Keyword FUEL PROGRAM 4 with RFG settings	Not Included	Not Included	Use M6 Keyword FUEL PROGRAM 4 with RFG settings
RVP	6.7	9.0	9.0	6.8